

WHAT IS CLAIMED IS:

1. An electrical hand-held power tool for at least partially percussive driving of a tool (1) along a striking axis (A), comprising a striking mechanism (2) having striking means (3) for generating impact forces on the anterior arranged tool (1), and a housing (5) enclosing the striking mechanism (2) and having a handle (6) affixed thereon, wherein the striking means (3) is formed as a high-energy piezo actor connected to a voltage pulse generating unit (7) and is rearwardly fixed to the housing (5).
2. An electrical hand-held power tool of claim 1, wherein the handle (6) is affixed to a longitudinal expansion vibration node of the housing (5).
3. An electrical hand-held power tool of claim 2, wherein the handle (6) is connected to the housing (5) by an optimally dampedly tuned to the vibration mode, damping means (9).

4. An electrical hand-held power tool of claim 1, wherein the handle (6) is configured as a handle stirrup with a rear main handle grip (8a) and a side accessory grip (8b).
5. An electrical hand-held power tool of claim 1, wherein the piezo actor is biased against its impact deformation along the strike axis (A) by spring means (14a, 14b).
6. An electrical hand-held power tool of claim 1, wherein a vibration coupled piezo actor – housing system is jointly synchronized with the first longitudinal natural vibration of the piezo actor.
7. An electrical hand-held power tool of claim 1, wherein the voltage pulse generating unit (7) has a control input (10) that is connected to a deformation sensor (11).
8. An electrical hand-held power tool of claim 1, wherein the voltage pulse generating unit (7) has a counter (12) that controls pulse generation.

9. An electrical hand-held power tool of claim 1, wherein the voltage pulse generating unit (7) has a computer unit (13) for controlling calculable striking functions dependent on detected vibration parameters.
10. An electrical hand-held power tool of claim 5, wherein the piezo actor is biased against its impact deformation along a displacement path (X) by at least two different springs.
11. An electrical hand-held power tool of claim 7, wherein the voltage pulse generating unit (7) has a control input (10) that is connected to the piezo actor.